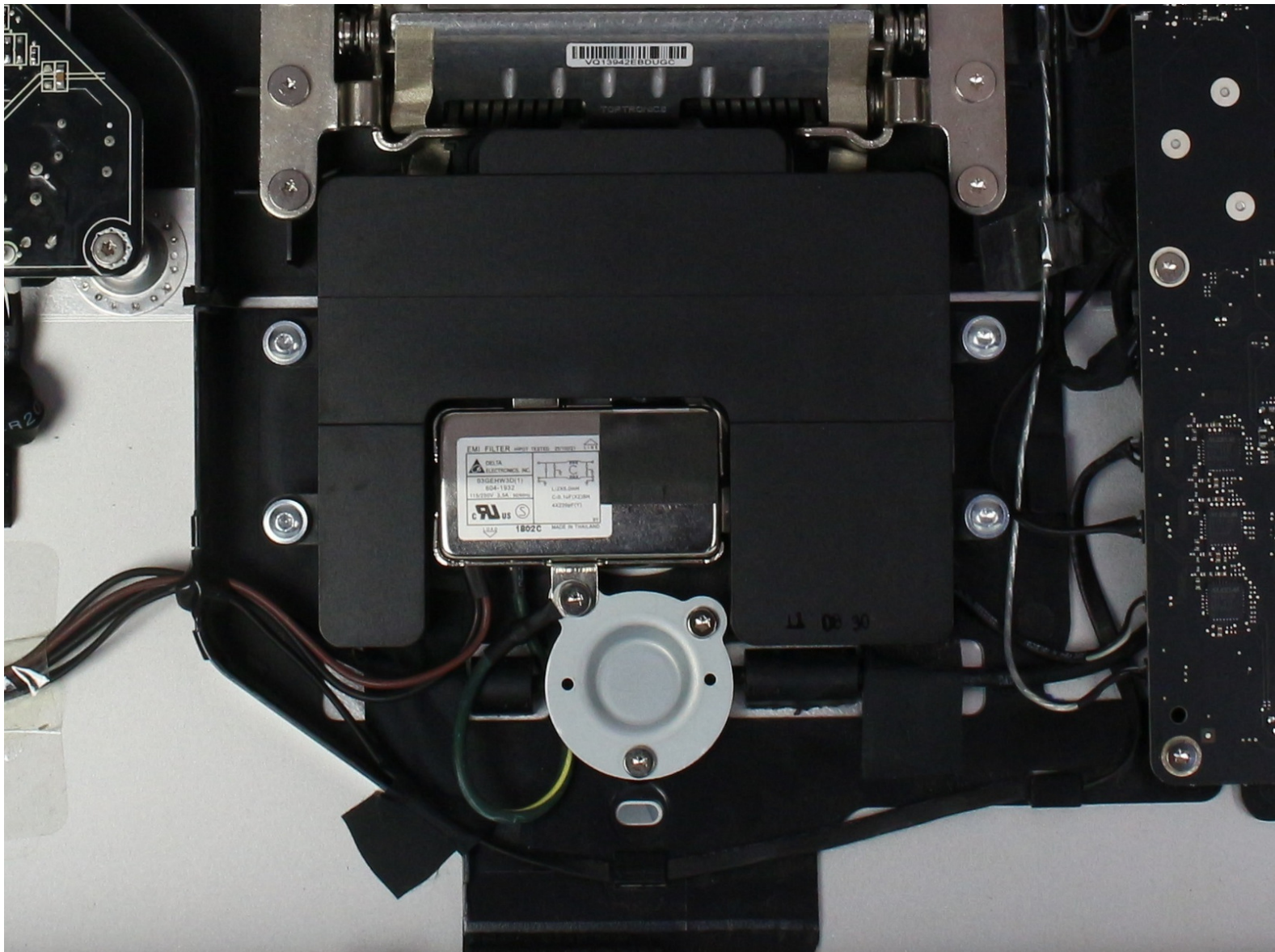




Apple Thunderbolt Display EMI Filter Replacement

Replace the EMI Filter on your Apple Thunderbolt Display.

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INTRODUCTION

The EMI filter is set into the device and is behind a few components. Because of this there are many wires surrounding it that are not part of this specific component. Make sure to carefully follow wires and components to make sure that the right parts are being removed.



TOOLS:

- [Heavy-Duty Suction Cups \(Pair\)](#) (1)
 - [T10 Torx Security Bit Screwdriver](#) (1)
 - [Tweezers](#) (1)
 - [iMac Service Wedge](#) (1)
 - [Phillips #00 Screwdriver](#) (1)
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Step 1 — LCD



- Lay down the display with screen side up.
- i Since the display is able to be tilted up and down, we found it useful to prop up the screen up with a styrofoam block in between the screen and the base.
- Place the two suction cups on both sides of the top of the screen and make sure to lock them in place.
- The glass screen is connected to the rest of the display by small magnets. Lift slowly and the screen will come right off.

Step 2



- Unscrew the 12 screws (marked in red) around the side edges and the top of the LCD with the TR 10 Screwdriver.
- Next, unscrew the 4 remaining screws (marked in orange) at the bottom of the display with your Phillips #00 Screwdriver.

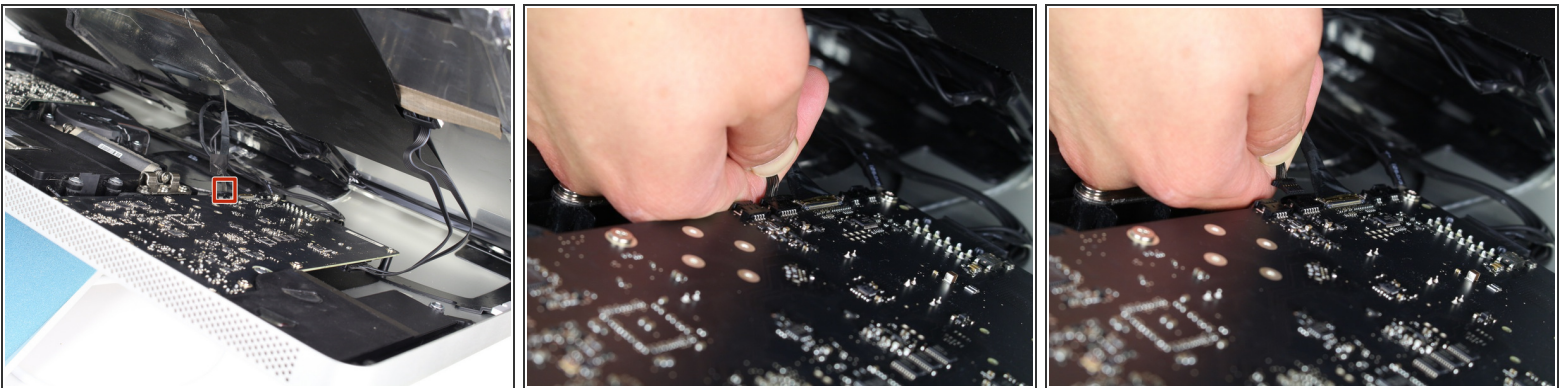
Step 3



- Slowly lift the LCD out from its placement and tilt it upwards.

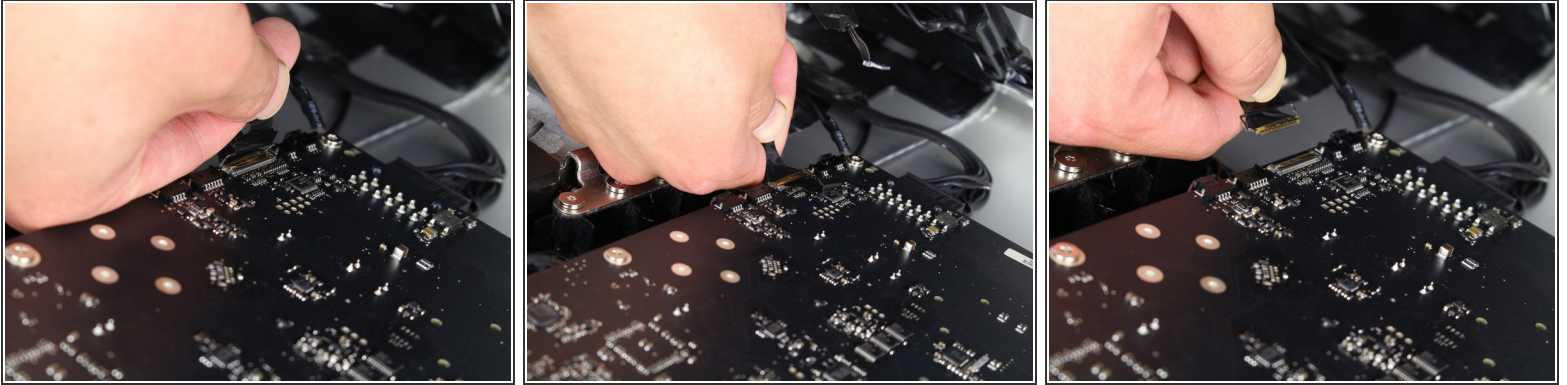
⚠ There are four wires that connect the LCD to the rest of the components. Make sure not to pull hard and break any of the wires.

Step 4



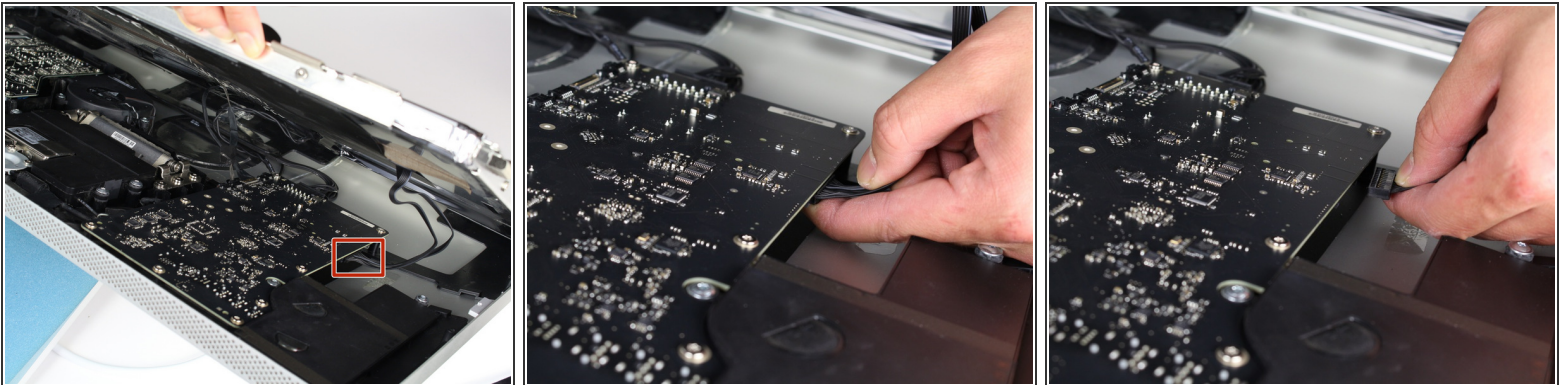
- For the first of the four wires (furthest away from the wire that is held in by a screw), grab onto the connector and pull slowly.

Step 5



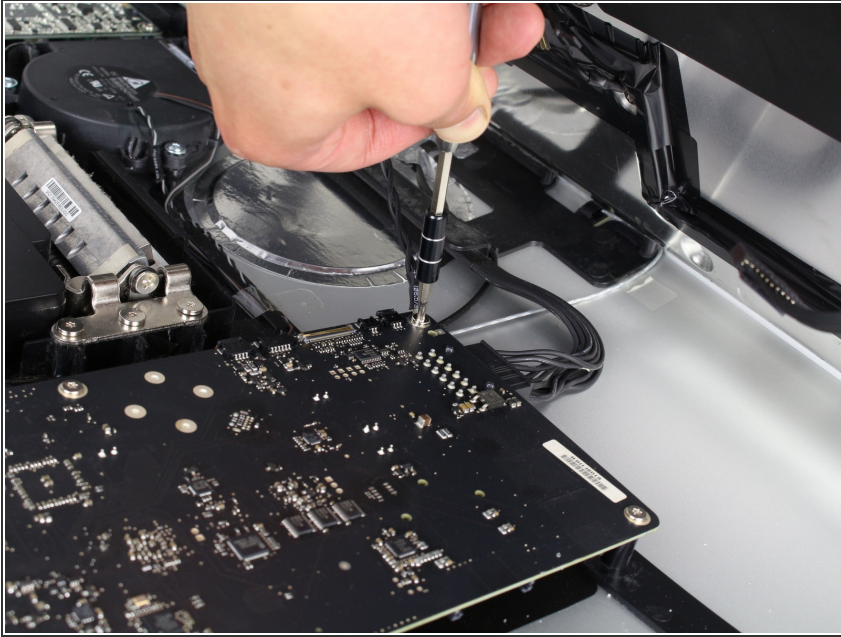
- For the next connector, which is right next to the previous wire, there is a piece of tape that is sealing it to the board. Remove this first.
- Next, grab onto the connector and slowly pull it from the socket in the logic board.

Step 6



- For the connector on the other side of the logic board, grab the connector from underneath and carefully pull it from the board.

Step 7



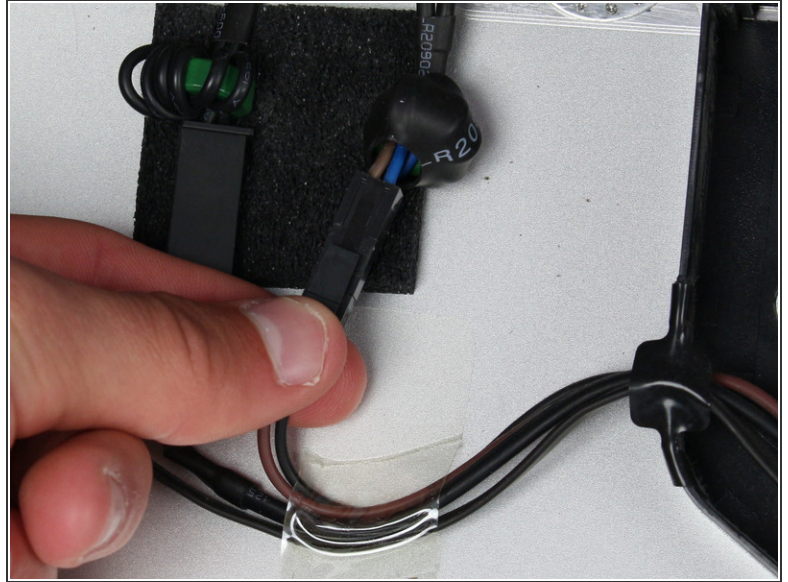
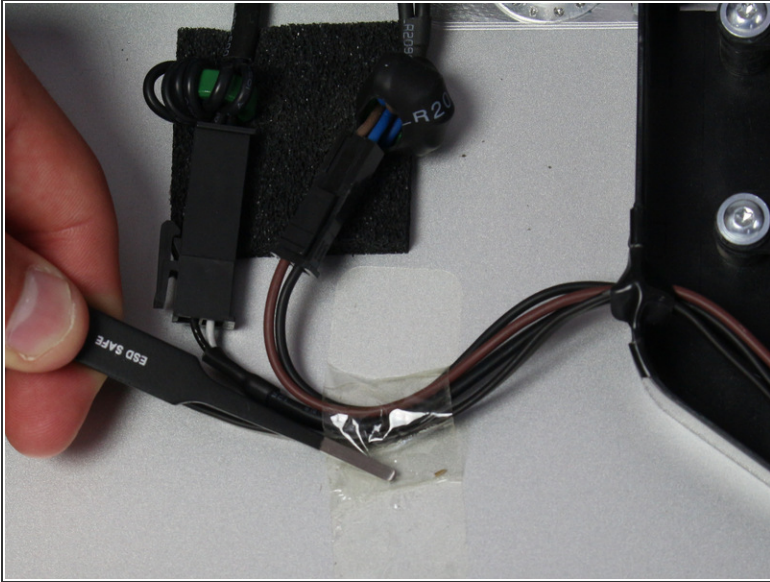
- For the last wire connecting to the LCD, use your TR 10 Screwdriver to remove the screw.

Step 8



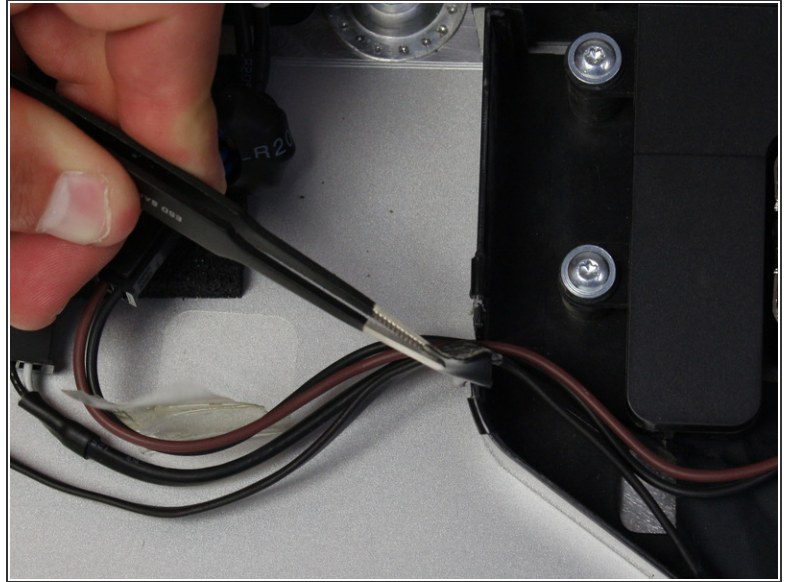
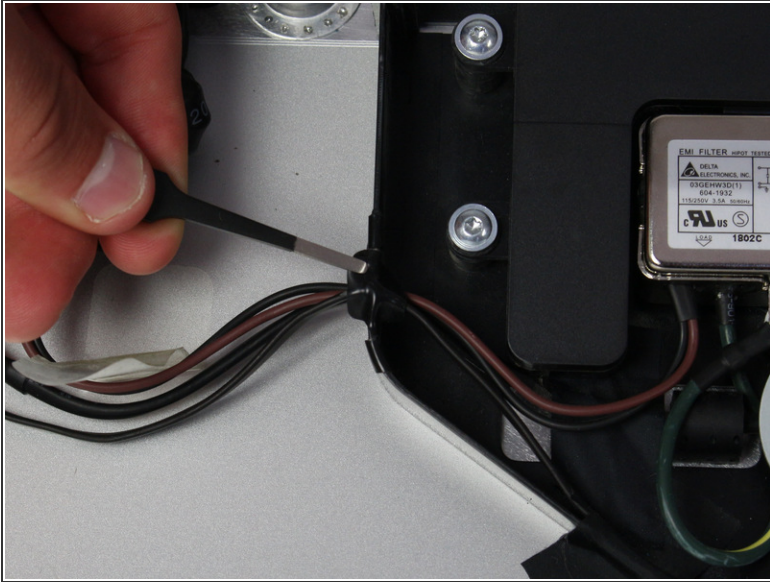
- The LCD has now been fully disconnected from the casing and can be repaired/replaced!

Step 9 — EMI Filter



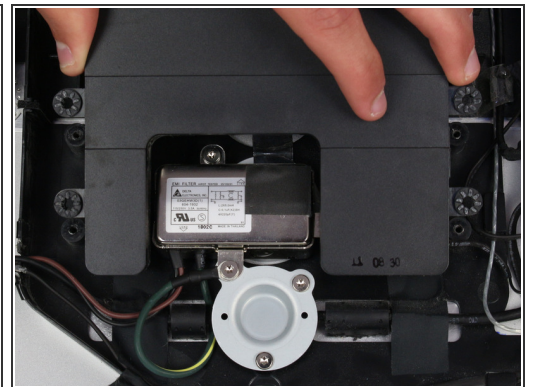
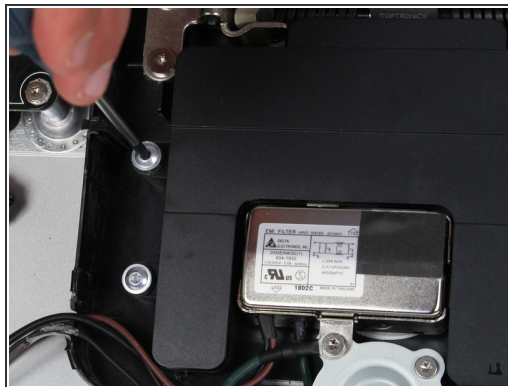
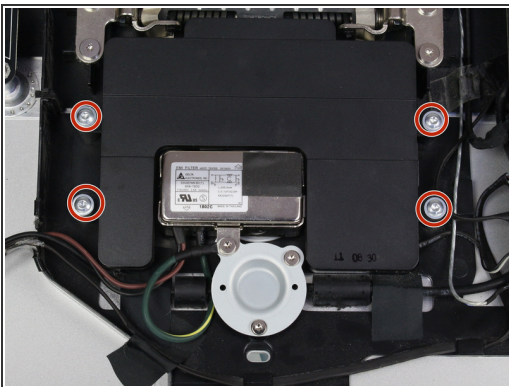
- You should now see the AC Power adapter right in the middle of the device (although held in by a few other components).
- Follow the wires coming out of the bottom of the Power adapter off to the left.
- Take the tweezers and remove the piece of tape holding the wires to the casing.
- There is only one connector that needs to be taken out (even though there are two right next to each other!).
- Grab the connector from the bottom and pull it carefully from its corresponding socket.

Step 10



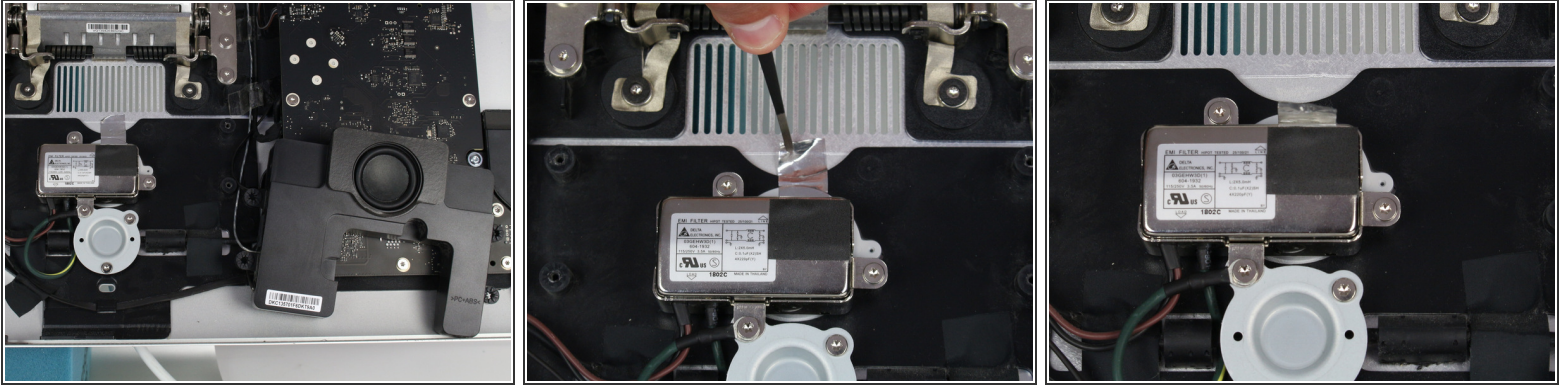
- Next, remove the piece of electrical tape that is holding wires into the casing connecting to the power adapter.

Step 11



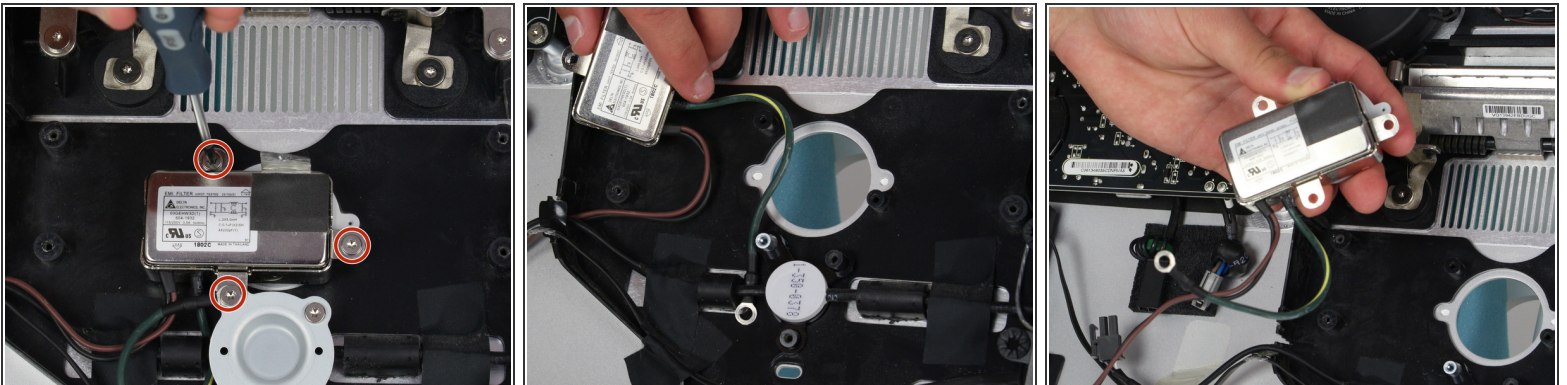
- The surrounding speaker component (the black box) around the power adapter need to be removed.
- Use the TR 10 screwdriver to remove the four screws!

Step 12



- Now that the middle speaker is out of the way, the power adapter is easily accessible.
- Using tweezers, remove the silver tape that is at the top of the adapter.

Step 13



- The power adapter is connected by three screws. Use the TR 10 screwdriver to remove them.
- ⓘ The screw that holds in both the AC adapter and a wire that is connected to it is a different size and should be kept identifiable from the other two screws.
- The green and yellow wire that was held in by the different screw is tucked behind another component. To get it out, squeeze it behind the black wire and the power adapter will be able to be removed from the casing.

To reassemble your device, follow these instructions in reverse order.

